7.4 x 3.4 x 1.8mm BUILT-IN CAPACITANCE CERAMIC RESONATOR



AWSCR-MGD

Moisture Sensitivity Level (MSL) – This product is not Moisture Sensitive - MSL = 1

FEATURES:

- Low resonant impedance
- Built-in load capacitors
- Suitable for RoHS compliant reflow
- Low cost solution for cost sensitive applications

STANDARD SPECIFICATIONS:

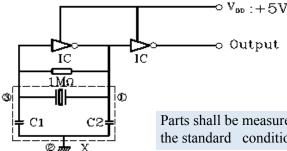
RoHS/RoHS II Compliant Pb in ceramic, exemption (7c-I)

APPLICATIONS:

- Remote controls, Microprocessor clocks, DVD & CD-ROMs, Electric appliances
- Consumer electronics

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		1.84		8	MHz	
Resonant Impedance (Ro)				100	Ω	1.84 MHz - 2.39 MHz
				100		2.40 MHz - 2.99 MHz
				50		3.00 MHz - 3.49 MHz
				30		3.50 MHz - 8.00 MHz
Standard Built-in Capacitance (C1=C2)		33 - 20%	33	33 + 20%	pF	1.84 MHz - 2.39 MHz
		22-20%	22	22 + 20%		2.40 MHz - 2.99 MHz
						3.00 MHz - 3.49 MHz
						3.50 MHz - 8.00 MHz
Frequency Tolerance		-0.5		0.5	%	
Frequency Stability		-0.3		0.3	%	-25°C to +85°C
Withstanding Voltage			50		V	DC, 1 min
Rating Voltage	(1) D.C.Voltage			6	V	
	(2) A.C. Voltage			15	Vp-p.	
Insulation Resistance		100			MΩ	10V, 1min
Operation Temperature		-25		85	°C	
Storage Temperature		-55		85	°C	
Aging Rate (Fosc) (10 years)		-0.3		0.3	%	

TEST CIRCUIT:

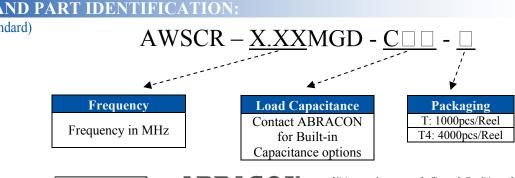


X: Ceramic Resonator

- 1. Input
- 2. Ground
- 3. Output

Parts shall be measured under a condition (Temp.: 20±15°C, Humidity: 65±20% R.H.) unless the standard condition (Temp: 25±3°C, Humidity: 65±10% R.H.) is regulated to measure





CORPORATION



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7.4 x 3.4 x 1.8mm BUILT-IN CAPACITANCE CERAMIC RESONATOR

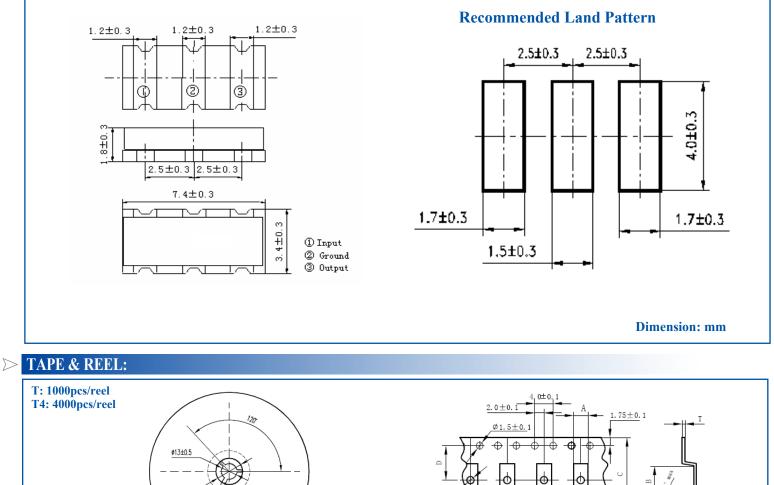


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OUTLINE DRAWING:

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RoHS/RoHS II Compliant Pb in ceramic, exemption (7c-I)



¢21±0.8 Ŕ1.0 RO. 3max 2±0.5 F D ØΝ А В С F Κ 对应产品 ØA 7.5±0,1 7.8±0.2 16.0±0.2 2.1±0.10.3±0,05 3.8±0.2 8.0±0.1 1.55±0,05 CC ØE Top Tape Peeling Strength 20-70g Carrier tape Reel Pieces per $\overline{10}$ nax Т ΦA ΦВ W Quantity reel size 60 typ. 16.4 min ਿਹਿਯ 179±2 22.4 max 1000 (T) 1000 typ. 16 ∇ 1 4000 (T4) 330±3 80 min 16.4 min 22.4 max 4000 typ 16 <u>Carrier</u> Tape

Dimension: mm

Note: upon opening the original packaging, it is recommended that the product be used within 1 year. If the product will not be used within 1 year, it is recommended that the product be re-sealed in airtight packaging according to MSL 1 requirements to maintain solderability.

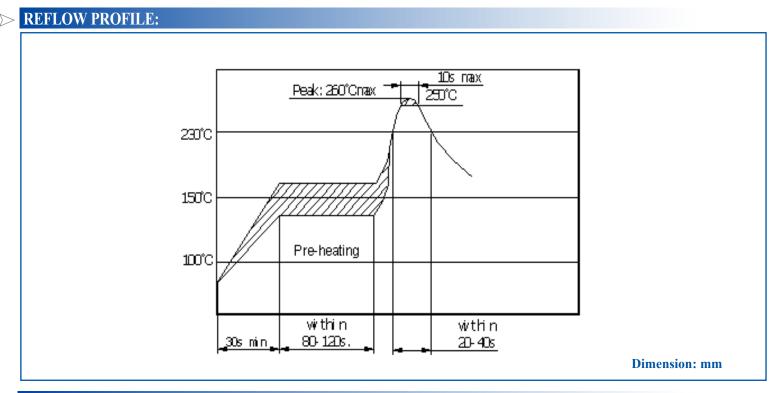




7.4 x 3.4 x 1.8mm BUILT-IN CAPACITANCE CERAMIC RESONATOR



AWSCR-MGD



▷ CAUTION:

- Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- · This component is not hermetically sealed. Do not clean or wash the component.
- Reflow soldering: Do not use strong acidity flux, such as flux with chlorine content of greater than 0.2wt% during reflow Soldering.
- Do not expose the component to open flame.
- This specification applies to the functionality of the component as a single unit. Customers are advised to insure that the component is thoroughly evaluated in the particular application.
- Storage conditions: If the product is to be stored for a period greater than six months after the delivery date, it is recommended that customers confirm the solderability and characteristics for the product prior to use.
- This product is not recommended for use in the following applications: Automotive, Medical, Military, Safety, or any other high-reliability, life-dependant application. Contact Abracon Corporation prior to using this product when in doubt.

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.





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